

Patent Abstracts of Japan

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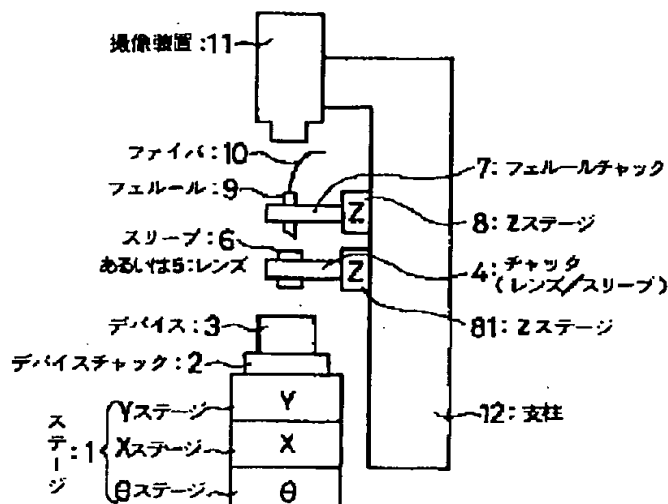
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TITLE : OPTICAL DEVICE ASSEMBLING METHOD AND ITS DEVICE



**ABSTRACT :** PROBLEM TO BE SOLVED: To easily, accurately and rapidly assemble an optical device by providing a mechanism for performing the axial adjustment of a lens and a fiber,  $\theta$  adjustment, the alignment of the lens considering an influence caused by the oblique cut of the fiber and the alignment of the fiber so that power fluctuation at the time of synthesizing light which is polarized and separated by an analyzer may be kept to the minimum in the device as for an optical device assembling method and its device.

**SOLUTION:** In a state where the lens 5 is held by a chuck 4 and allowed to approach to the device 3 on a stage 1, the light going toward the lens 5 from the device 3 is detected by an image pickup device 11 and the stage 1 is adjusted in XY directions so that the light may be made incident on the center position of the lens 5 and the light quantity is adjusted to be at a maximum position, whereby the lens 5 is fixed on the device 3. In a state where the fiber 10 and the sleeve 6 are allowed to approach to the device 3 on the stage while the fiber 10 is somewhat inserted in the sleeve 6, the light passing through the lens 5 from the device 3 and passing through the fiber 10 is detected and the stage 1 is adjusted in the XY directions and the light quantity is adjusted to be at the maximum position, whereby the sleeve 6, the fiber 10 and the device 3 are mutually fixed and assembled.

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